KARAPETYAN, S.Ye.

Geometric values of some congruence invariants. Nauch. dokl. vys. skoly; fiz.-mat. nauki no.1:48-52 '58. (MIRA 12:3)

1. Yerevanskiy gosudarstvennyy universitet im. Kh. Abovyana. (Congruences (Geometry))

16(1)Karapetyan, S.E. AUTHOR: SOV/155-58-2-11/47 Two Congruences With Common Invariants F and F' (Dve kongruentsii TITLE: s obshchimi invariantami F i F') PERIODICAL: Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki, 1958, Nr 2, pp 55-59 (USSR) The present paper is a continuation of a recently published paper ABSTRACT: of the author Ref 1] . There he considered transformations of tetrahedra and determined two invariants: F - invariant of the first focal surface (A_4) and F' - invariant of the second focal surface (A_2). In the present paper the author considers two congruences (A_1A_2) and $(\overline{A_1A_2})$ between the rays of which there exists a one-to-one relation, for which the focal invariants of the corresponding focal surfaces of these congruences remain preserved. There are 9 Soviet references. ASSOCIATION: Yerevanskiy armyanskiy pedagogicheskiy institut (Yerevan Armenian Pedagogical Institute) SUBMITTED: February 15, 1958 Card 1/1

AUTHOR:

Karapetyan, S.Ye.

SOV/20-122-3-3/57

TITLE:

Harmonic Quadrics and Certain Congruence Ruled Surfaces (Garmonicheskiye kvadriki i nekotoryye lineychatyye poverkhnosti kongruentsiy)

PERIODICAL:

Doklady Akademii nauk SSSR,1958,Vol 122,Nr 3,pp 335-338 (USSR)

ABSTRACT:

The author considers congruences the harmonic ruled surfaces of which form quadrics. He applies Cartan's method according to the well-known work of Finikov [Ref 1,2] and essentially uses his own earlier results [Ref 3-5]. From these he takes the equations of the harmonic ruled surfaces of the first and second focal congruence surface and from these, in accordance with the requirement that the two harmonic ruled surfaces be quadrics he obtains certain invariant equations for characterizing the considered congruences. The properties of the considered congruences are now connected with the generated Laplace sequence — the configuration L.

Theorem: The two harmonic ruled surfaces of a focal surface are quadrics, if and only if this congruence generates the con-

figuration L .

Theorem: Two harmonic quadrics of a congruence of L simul-

Card 1/3

Harmonic Quadrics and Certain Congruence Ruled Surfaces

SOV/20-122-3-3/57

taneously are harmonic quadrics of the other congruences of this configuration.

Theorem: If the two harmonic ruled surfaces of the given focal surface of the congruence are quadrics, then all asymptotic ruled surfaces of this congruence are quadrics too.

Theorem: If the two asymptotic ruled surfaces of a focal sur-

Theorem: If the two asymptotic ruled surfaces of a focal surface of the congruence are quadrics and if the configuration L generated by the congruence closes after the fourth step, then the harmonic ruled surfaces of this congruence are quadrics too.

In the last section of the paper some further remarkable ruled surfaces of the congruence are given and their properties are considered.

There are 6 Soviet references.

ASSOCIATION: Armyanskiy gosudarstvennyy pedagogicheskiy institut imeni Kh.Abovyana (Armenian State Pedagogical Institute imeni Kh.

Abovyan)

PRESENTED: April 25, 1958, by S.L. Sobolev, Academician

Card 2/3

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16(1) AUTHOR:

Karapetyan, S.Ye.

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SOV/22-12-4-2/9

TITLE:

The Pair A and Some Properties of the Pair T

PERIODICAL:

Izvestiya Akademii nauk Armyanskoy SSR. Seriya fiziko-matematicheskikh nauk, 1959, Vol 12, Nr 4, pp 27 - 34 (USSR)

ABSTRACT:

A configuration A of two congruences is defined by making correspond ruled surfaces to each ray of the congruences and then demanding that the tangential plane of each of these ruled surfaces passes through the point of tangency of the other ruled surface. The defined configuration forms a generalization of the T-configuration of Finikov [Ref 3,4 7 . The author proves some properties of the two configurations, e.g. the directions of the main ruled surfaces of T are identical with the main directions of the same configuration (see Calapso / Ref 6,7 7)
There are 12 Soviet references.

ASSOCIATION: Armyanskiy pedagogicheskiy institut imeni Kh. Abovyana (Armenian Pedagogical Institute imeni Kh. Abovyan)

SUBMITTED:

October 27, 1958

Card 1/1

S/022/60/013/002/008/011 XX C 111/C222

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Karapetyan, S.Ye. AUTHOR:

Configuration L TITLE:

Izvestiya Akademii nauk Armyanskoy SSR. Seriya fizikomatematicheskikh nauk, 1960, Vol. 13, No. 2, pp. 3 - 16 PERIODICAL:

The present paper joins the author's earlier papers (Ref. 3,4,10,11) and uses the same notations In (Ref. 3) the author obtained the equation of the Lie quadric for all ruled surfaces, $\left(\omega_{2}^{4} = \lambda \omega_{1}^{3}\right)$ of the congruence. On the

first focal surface to their harmonic ruled surfaces there corresponds the conjugate net $(\alpha(\omega_1^3)^2 - \beta(\omega_2^4)^2 = 0)$ with the property that both tangents of the net form a harmonic quadruple with the two tangents of the first focal net. Thus the mentioned conjugate net is called the harmonic net \(\bar{1} \) of the first focal surface (A_1) . The harmonic ruled surfaces of the congruence Card 1/4

Configuration L

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 (A_1, A_2) which correspond to the net Γ_1 are again denoted with Γ_1 . Γ_2 is the harmonic net of the focal surface (A_2) etc.

Amongst other things it is shown: Two focal surfaces of the congruence and two tangenting planes of two arbitrary ruled surfaces of the congruence (with a common tangenting point) form a harmonic quadruple then and only then if these ruled surfaces are conjugate in the sense of Sania. (A₁) is the common focal surface of two congruences of the Laplace sequence. Ruled

surfaces belonging to an other congruence of the sequence and corresponding to the lines \(\begin{align*} \begin{align*} \lambda & \text{the lines of the lines } \begin{align*} \begin{align*} \lambda & \text{the lines of the lines } \begin{align*} \begin{align*} \lambda & \text{the lines of the lines of the lines of the lines \(\begin{align*} \begin{align*} \lambda & \text{the lines of the lines of the lines of the lines \(\begin{align*} \begin{align*} \lambda & \text{the lines of the lines of the lines of the lines \(\begin{align*} \lambda & \text{the lines of the lines of the lines of the lines \(\begin{align*} \lambda & \text{the lines of the lines of the lines of the lines \(\begin{align*} \lambda & \text{the lines of the lines of the lines of the lines \(\begin{align*} \lambda & \text{the lines of the lines of the lines of the lines \(\begin{align*} \lambda & \text{the lines of the lines of the lines \(\begin{align*} \lambda & \text{the lines of the lines of the lines \(\begin{align*} \lambda & \text{the lines of the lines of the lines \(\begin{align*} \lambda & \text{the lines of the lines of the lines \(\begin{align*} \lambda & \text{the lines of the lines of the lines \(\begin{align*} \lambda & \text{the lines of the lines \(\beta & \text{the lines of the lines of the lines \(\beta & \text{the lines of the lines \) \(\beta & \text{the lines of the lines \(\beta & \text{the lines of the lines of the lines \(\beta & \text{the lines of the lines of the lines \(\beta & \text{the lines of the lines of the lines \(\beta & \text{the lines of the lines of the lines \(\beta & \text{the lines of the lines of the lines \(\beta & \text{the lines of the lines of the lines \(\beta & \text{the lines of the lines of the lines \(\beta & \text{the lines of the lines of the lines of the lines \(\beta & \text{the lines of the lines of the lines of the lines \(\beta & \text{the lines of the lines of the lines of the lines \(\beta & \text{the lines of the lines of the lines of the lines \(\beta &

along the ray of the given congruence, then it has a common tangenting plane along the ray of the following congruence of the Laplace sequence. If in each pair the corresponding quadrics of Γ_1 and Γ_1' coincide, then

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Configuration L

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it holds: 1) The sequence generated by the congruence (A_1, A_2) is an R-sequence (cf. (Ref. 6)); 2) Each pair of corresponding quadrics of C_2 and C_2 coincides; 3) All focal surfaces of the sequence are surfaces of second order; 4) Such a configuration is denoted as a configuration L and depends on 10 arbitrary constants. This configuration L is formed by two surfaces of second order. The diagonals A_1A_4 and A_2A_3 are simultaneously conjugate with respect to both surfaces and describe a congruence of straight lines each directrix of which intersects all tangents of a number of the nets C_1 and C_2 . There are 11 references: 10 Soviet and 1 Italian.

Abstracter's note: (Ref. 3,4,10,11) are papers of the author in Doklady Akademii nauk SSSR 1957, Vol. 117, No. 2; Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki, 1958, No. 1; Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki, 1958, No. 2; Doklady

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S/022/60/013/004/005/007XX C111/C222

AUTHOR: Karapetyan, S.Ye.

TITLE: On a Congruence Transformation

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR. Seriya fizikomatematicheskikh nauk, 1960, Vol.13, No.4, pp.3-17

TEXT: The papers (Ref. 1, 2, 3, 4) assert that the straight lines of the P3 are mapped ento. the points of the hyperquadratic Q4 of the P5. The tangenting plane intersects Q_4^2 in a three-dimensional cone K_3^2 the vortex of which lies in the tangenting point. The asymptotic lines on q_A^2 are determined by the differential equation

 $\omega_1^3 \omega_2^4 - \omega_2^3 \omega_1^4 = 0$.

The quadratic fundamental form (5) defines a polarity of the varieties in the tangenting hyperplane. Two varieties L_{m} and L_{m-4} being incident to the tangenting point and to the tangenting plane, are called conjugated if they correspond to eachother according to this polarity. In the preset paper the author uses the same conjugate varieties in order

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S/022/60/013/004/005/007XX C111/C222

On a Congruence Transformation

to obtain a congruence transformation and to obtain some theorems. The author uses the method of Cartan according to (Ref.5). The conjugate varieties can be described as follows: Let the two-dimensional surface (p_1) be the image of the congruence in the P_5 and L_1 be the tangent of (p_1) along the line $\omega_2^4 = \lambda \omega_1^5$. In the polarity (5), to the straight line L_1 there corresponds a certain L_3 which intersects the tangential 2-plane of (p_1) in a certain L_1^1 . The directions L_1 and L_1^1 are called conjugate in the congruence (P_1) . The L_3 -characteristic along L_1 is the 2-plane L_2 having only one common point p with the tangential 2-plane of (p_1) . An analogous point p^1 can be obtained if L_1 and L_1^1 are changed. The construction of the point p and p^1 in the p_3 leads to Laplace transformations. The straight line p_1^1 intersects q_1^2 in certain given points p_1^1 and p_1^2 . In the p_3 every straight line p_1^1 , p_1^2 lies on a focal surface and goes through the other focus of the congruence (p_1) . The (p_1^1) and (p_1^2) are denoted as n_1 -transformations of the congruence Card 2/4

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On a Congruence Transformation (p_1) in the conjugated directions $\omega_2^4 = \pm \lambda \omega_1^5$. The author gives conditions for the fact that the transformations Π and the focal surfaces of (p_1) are harmonic and conjugated, respectively. The case where the developable surfaces of the congruences (p_1) and (p_1^n) intersect with the focal surfaces (p_1) along asymptotic lines, is investigated separately. Furthermore the case where the developable surfaces of the congruences (p_1^1) and (p_1^n) intersect with the focal planes of the congruence (p_1) in a harmonic net is investigated. In this case (p_1) , (p_1^n) , (p_1^n) are W-congruences and the asymptotic lines on their focal surfaces correspond to eachother. Finally the case is investigated, where the straight lines p_1^n and p_1^n are polarly

conjugated with respect to the two Lie quadrics of the focal surfaces of

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Card 3/4

Quadrics of congruences. Dokl.AH Arm.SSR 30 no.2: 65-72 *60. (MIRA 13:6)

1. Yerevanskiy armyanskiy pedagogicheskiy institut imeni Kh. Abovyana. Predstavleno akad. AN Armyanskoy SSR M.M. Dzhrbashyanom. (Congruences(Geometry))

KARAPETYAN, S.Ye. (Yerevan)

Transformation of congruences by means of semiquadrics. Mat.shor. (MIRA 13:6) 50 no.1:109-116 Ja *60. (Congruences)

06/13/2000

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s/020/60/133/005/022/034XX C111/C222

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 5, pp. 1007-1010. AUTHOR: Karapetyan, S.Ye. | Application Conjugate Manifolds and Their Application TEXT: As it is well-known (Ref.2-4), the straight lines of the P3 are TEXT: As it is well-known (Ref. 2-4), the straight lines of the F3 a q2 generates a mapped into points of the hyperquadric q4 where the sum of dimensions are the sum of dimensions are the sum of dimensions. polarity of the linear subspaces in the P5, where the sum of dimensions of the conjugate spaces is 4. If a subspace lies in the tangential the conjugate spaces is 4. If a subspace through the tangenting noint, then hyperplane of the Q2 and passes through the tangenting noint. of the conjugate spaces is 4. If a subspace lies in the tangential then hyperplane of the Q2 and passes through the tangenting point, conjugate subspace has this property too. Such subspaces are conjugate manifolds. The common subspace of two conjugate manifolds. conjugate subspace has this property too. Such subspaces are oalled conjugate manifolds L conjugate manifolds. The common subspace of two conjugate manifolds. X An infinitesimal displacement of the tetrahedron A1 2 A 3 in the and L4-m is called an asymptotic manifold. projective space is described by $dA_i = \omega_i^k A_k$ (1) card 1/3

S/020/60/133/005/022/034XX C111/C222

Conjugate Manifolds and Their Application

where ω_{i}^{k} are linear differential forms connected with the structural equations of the space $D\omega_{i}^{k} = [\omega_{i}^{j} \omega_{j}^{k}](cf.(Ref.1))$. Let the analytic straight lines be denoted by

(2) $p_1 = (A_1A_2), p_2 = (A_3A_4), p_3 = (A_2A_3), p_4 = (A_1A_4), p_5 = (A_1A_3),$

 ${\bf p}_6 = ({\bf A_4 A_2}).$ The tangential hyperplane of the ${\bf Q_4^2}$ in the point ${\bf p_1}$ is determined by

the Grasmann product $(p_1p_3p_4p_5p_6)$. The asymptotic manifold is determined from the postulate $(d^2p_1p_3p_4p_5p_6p_1) = 0$, which leads to

(3) $\omega_1^3 \omega_2^4 - \omega_2^3 \omega_1^4 = 0.$

If $\mathbb{A}_1\mathbb{A}_2$ describes a ruled surface L in \mathbb{P}_3 , then its image describes a curve 1 on \mathbb{Q}_4^2 ; if the ruled surface is developable, then the image Card 2/3



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Transformation of a congruence by means of ruled surfaces.

Dokl.AN Arm. SSR 32 no.1:9-16 61. (MIRA 14:3)

1. Armyanskiy pedagogicheskiy institut imena Kh. Abovyana.
Predstavleno akademikom AN Armyanskoy SSR M.M. Dzhrbashyanom.
(Congruences(Geometry)) (Surfaces, Ruled)

Theory of pairs of congruences. Izv. AN Arm. SSR. Ser. fiz.-mat. nauk 14 no.4:37-47 '61. (MIRA 14:11)

1. Armyanskiy pedagogicheskiy institut imeni Kh. Abovyana. (Congruences (Geometry))

Linear manifolds of straight lines and planes in four-dimensional projective space. Izv.AN Arm. SSR. Ser. fiz.-mat.nauk 15 no.1:53-72 62. (MIRA 15:2)

学师·特别的对象是对外的相似是一种的人们的女子工作。

1. Armyanskiy pedagogicheskiy institut imeni Kh. Abovyana i institut matematiki i mekhaniki AN Armyanskey SSR.

(Geometry, Projective)

Complexes of straight lines in three-dimensional projective space. Mat.sbor. 56 no.3:343-352 Mr 162. (MIRA 15:4) 1. Armyanskiy pedagogicheskiy institut imeni Kh.Abovyana. (Aggregates) (Geometry, Differential)

Projective-differential geometry of a two-parameter family of straight lines and planes in a four-dimensional space. Part 1. Izv.AN Arm.SSR.Ser.fiz.-mat.nauk 15 no.2:25-43 '62. (MIRA 15:4)

1. Armyanskiy pedagogicheskiy institut imeni Kh. Abovyana i Institut matematiki i mekhaniki AN Armyanskoy SSR. (Geometry, Differential—Projective)

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KARAPETYAN, S.Ye.

Projective differential geometry of two-parameter families of straight lines and surfaces in four-dimensional space. Izv. AN Arm. SSR. Ser. fig.-mat. nauk 15 no.3:17-28 '62.

(MIRA 15:9)

1. Armyanskiy pedagogicheskiy institut imeni Kh. Abovyana
i Institut matematiki i mekhaniki AN Armyanskoy SSR.

(Geometry, Differential—Projective)

Projective differential geometry of families of n-dimensional planes. Part 1. Izv. AN Arm SSR. Ser. fiz.-mat. nauk 16 no.3: 3-22 '63. (MIRA 16:8)

l. Yerevanskiy zaochnyy pedagogicheskiy institut i Institut matematiki i mekhaniki AN ArmSSR.

(Geometry, Differential—Projective)

Projective differential geometry of a family of multidimensional planes. Part.2. Izv. AN Arm.SSR.Ser.fiz.-mat. nauk 16 no.5:3-22 163. (MIRA 16:11)

1. Institut matematiki i mekhaniki AN Armyanskoy SSR i Armyanskiy zaochnyy pedagogicheskiy institut.

Projective differential geometry of families of n-dimensional planes. Part 3. Izv. AN Arm. SSR.Ser.fiz.-mat.nauk 17 nd.1:3-21 '64.

(MIRA 17:3)

1. Armyanskiy zaochnyy pedagogicheskiy institut i Institut matematiki i mekhaniki AN Armyanskoy SSR.

KARAPETYAN, T.A.

Distribution and prospects for the development of the industry of mining building materials in the Shiraki Steppe [in Armenian with summary in Russian]. Nauch. trudy Trev. un. 63:183-208. 58.

(NIRA 11:6)

1. Yerevanskiy gosudarstvennyy universitet, kafedra ekonomicheskoy geografii.

(Armenia—Building materials industry)

AID P - 4937

Subject

: USSR/Electronics

Card 1/1

Pub. 89 - 4/18

Author

Karapetyan, V.

Title

Ultrashort wave school radio stations

Periodical

Radio, 8, 19-20, Ag 1956

Abstract

: The author points to the necessity of paying more attention to the development of ultrashort wave radio stations in schools. These school stations contribute to the familiarization of more people with radio and

radio equipment.

Institution: None

Submitted

: No date

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610017-7"

GUKASYAN, V.; KARAPETYAN, V.

Production of concrete with a natural texture finish for outer wall panels. Prom.Arm. 5 no.8:54-55 Ag '62. (MIRA 15:8)

1. Armyanskiy institut stroitel'nykh materialov i sooruzheniy.
(Armenia-Building materials)

KARAPETYAN, V.A.

Brief reports. Zav. lab. 25 no.1:126 159.

(MIRA 12:1)

l. Moskovskiy aviatsionny tekhnologicheskiy institut. (Grinding machines)

KARAPETYAN, V.A.

5/120/61/000/006/007/041 21.6000 AUTHORS: Khrimyan, A.V., Yegiyan, K.Sh., Nalbandyan, N.A.,

Avakyan, V.V., and Kara potyan V.A.

TITLE: Measurement of charged-particle masses with the aid

of scintillation counters

PERIODICAL: Pribory i tekhnika eksperimenta, no.6, 1961, 52-56

TEXT: The method can be used to (a) select particles which stop in the scintillator owing to ionization losses, and (b) to determine the mass of the particles by measuring their energy and range in the scintillator. The device consists of a telescope of n scintillation counters (c_1,\ldots,c_n) with thickness $\{l_1,\ldots,l_n\}$ respectively. If a particle which has passed at an angle of φ through k-1 scintillators has come to rest in the scintillator C_k at a depth $\{l_1,\ldots,l_k\}$ and at the end of its range in the m+1 scintillators C_{k-m},\ldots,C_k the energy losses $\Delta E_{k-m},\ldots,\Delta E_k$ were due to ionization only, then it can be shown that:

Card 1/6

3311/1 Measurement of charged-particle ... 5/120/61/000/006/007/041 E032/E114

$$\frac{\Delta E_{k-i}}{\Delta E_{k-(i+1)}} = f_i \left(\frac{\Delta E_{k-(i+1)}}{\Delta E_{k-(i+2)}}, \ell_{k-1}, \ell_{k-(i+2)} \right)$$
(i = 0,..., m - 2)

This holds whatever the nature of the particle, the direction of its motion, and range in the last scintillator C_k . Thus, by measuring the energies $\Delta \xi_1,\dots,\Delta \xi_n$ in the scintillators C_1,\dots,C_n one can select with the aid of Eq.(1) all those particles which come to rest in the scintillators C_{k-m},\dots,C_k by losing energy in ionization processes only. For stable particles $\Delta \xi_1=\Delta E_i.$ If on the other hand a primary particle decays (or is captured) in the scintillator C_k then the energy liberated in C_k is $\Delta \xi_k=\Delta E_k+\delta E_k$ where the latter quantity is the energy of the secondary particles. In this case the first equation (i = 0) in Eq.(1) can only be used for the determination of the unknown energy:

 $\Delta E_{k} = \Delta \mathcal{E}_{k-1} f_{0} (\Delta \mathcal{E}_{k-1} / \Delta \mathcal{E}_{k-2})$ (4)

Measurement of charged-particle... 5/120/61/000/006/007/041 E032/E114

and the remaining relations in Eq.(1) are used to select the ionization stoppages. The energy loss of a particle with an ionizing power $1/I_{\min}$ in the scintillator C_1 is given by:

$$\Delta \xi_{i} = B \left(I/M_{\min} \right)_{C_{i}} t_{i \text{ MeV}}$$
 (5)

where B is in MeV/cm and represents the minimum ionization loss in the particular scintillator, and ℓ_i is the thickness of the scintillator C_i in cm. Thus the energy lost by a particle before stopping in scintillators C_{k-m}, \ldots, C_k is given by k-m

$$E = \sum_{i=k}^{K-m} \Delta \xi_i$$

If Eq.(1) is not satisfied for i = 0, then

$$E = \sum_{i=k-1}^{k-m} \Delta \xi_i + \Delta E_k$$
 (6)

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331/11 Monauroment of charged-particle... S/120/61/000/006/007/041 E032/E114

where ΔE_k is given by Eq.(4). The range of a particle in the scintillators $c_{k-m},\dots,\,c_k$ is given by:

$$R = \left(\sum_{i=k-1}^{k-m} \ell_i + \ell_x\right) \operatorname{cosec} \varphi \tag{7}$$

in which all the quantities except $\mathcal{L}_{\mathbf{x}}$ are known. If the scintillators are looked upon as simple filters then

$$\ell_{x} = 1/2 \ell_{k} \pm 1/2 \ell_{k}$$

 ℓ_{x} can also be determined from a relation of the form:

$$\ell_{x} = F(f_{0}, \ell_{k-1}, \ell_{k-2})$$
(3)

In order to verify the above method the authors have used the results obtained with the instrument described by A.I. Alikhanov, A.V. Khrimyan, V.K. Kosmachovskiy, V.V. Avakyan, Yu.V. Gorodkov, K.Sh. Yegiyan and N.A. Nalbandyan (Ref. 6: Proceedings of the International Conference on Cosmic Rays, 1959, 1960, v.1, 183)

Card 4/6

Measurement of charged-particle ... 33141 S/120/61/000/006/007/041 E032/E114

The instrument consists of a magnetic mass spectrometer, a five-layer propertional counter (A.I. Alikhanov, V.A. Lubimov, G.P. Elisiyev, CERN Symposium, v.2, 1956, 87) and five scintillation counters (V.K. Kosmachevskiy and M.S. Aynuddinov, PTE, no.3, 1956, 49). The rms error in the momenta between 0.2 and 1 GeV/c was approximately 8 to 5% for protons and 2 to 4% for M-mesons. The ionizing power of the particles could be measured with the proportional counter to an average accuracy of 14%. For particles stopping in the scintillation counters the average losses in the scintillators could be measured to ± 10%. Preliminary results indicate that the efficiency of selection of particles which come to rest owing to ionization only is about 0.8. The average accuracy with which the masses can be determined from the energies and ranges is approximately 20%. The statistics on which these results are based are limited and not confirm the possibility of investigating the masses and decays of unstable particles. The method may find wide-ranging applications and is amenable to automation. Acknowledgments are

5/120/61/000/006/007/041 E032/E114

Measurement of charged-particle ...

expressed to A.I. Alikhanov and A.I. Alikhanyan for interest and discussions, and to Yu.V. Gorodkov, M.P. Lorikyan, I.P. Karabekov, K.A. Khurshudyan, G.P. Matevosyan, V.V. Truzyan, E.V. Patvakanyan, G.M. Smsaryan, A.A. Oganesyan and B.V. Tovmasyan for assistance in the organisation and execution of this work. There are 4 figures and 11 references: 5 Soviet-bloc and 6 non-Soviet-bloc. The four most recent English language references read as follows:

Ref. 2: J. W. Keuffel, R. L. Call, W. H. Sandmann, M. O. Larson. Phys. Rev. Letters, v.1, 1958, 203.
Ref. 4: Phys. Rev., v.114, 1959, 1150.

Ref.5: E. Birman, R. Lea, J. Orear, S. Rosendorff.
Phys. Rev., v.115, 1959, 710.
Ref.7: J. Steinbergor, 1958 Annual International Conference on High Energy Physics at CERN, Geneva, 1958. ASSOCIATION: Fizicheskiy institut AN ArmSSR

(Physics Institute, AS Armenian SSR)

April 3, 1961 SUBMITTED: Card 6/6

S/048/62/026/006/019/020 B125/B102

9.6150

AUTHORS: Khrimyan, A. V., Yegiyan, K. Sh., Nalbandyan, N. A.,

Avakyan, V. V., and Karapetyan, V. A.

TITLE: On the measurement of masses of charged particles by means

of scintillation counters

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,

v. 26, no. 6, 1962, 831-836

TEXT: A group of scintillation counters can be used to determine the stoppings due to ionization losses and the masses (range-energy measurement). The apparatus here used comprised a magnetic mass spectrometer ($\bar{H}=6850$ oe), a five-layer proportional counter and five scintillation counters. After measuring the energies released from the particle in the scintillators C_1 , ..., C_n with the thicknesses 1_1 , ..., 1_n ($n \ge 3$) the stoppings due to ionization losses were distinguished from the nuclear interactions by applying the criterion

Card 1/3

S/048/62/026/006/019/020 B125/B102

On the measurement of masses ...

at CERN, Geneva, 1958.

Card 2/3

$$\frac{\Delta E_{k-1}}{\Delta E_{k-1}(i+1)} = f_i \left(\frac{\Delta E_{k-1}(i+1)}{\Delta E_{k-1}(i+2)}, \ l_{k-1}, \ldots, l_{k-1}(i+2) \right) \quad (i = 0, \ldots, m-2)$$

 $\Delta E_{k-m},$, ΔE_k are the energy losses in the scintillators $C_{k-m},$, $C_k.$ The four quantities momentum, ionization power, range and energy are measured by this device. From these, the mass of the particles is found by the momentum - ionization and range - energy methods. The mass spectrum as measured by the first method has a maximum at $\sim 1780~m_e$ and that obtained from the second method a maximum at $\sim 1780~m_e$ and that obtained from the second method a maximum at $\sim 1850~m_e.$ In both cases a weak deuteron spectrum appears between 3500-4500 $m_e.$ The stoppings due to ionization are identified with an efficiency of $\sim 0.8.$ The stoppings due to other causes are eliminated with an efficiency of $\sim 0.9-1.$ This method was tested by the devices available at the time and can undoubtedly be improved upon by more perfect selection and use of apparatus. Its applicability to decay processes and to mass measurements of unstable particles has not yet been confirmed experimentally. There

Stenberger J. 1958 Annual International Conference on High Energy Physics

are 4 figures. The most important English-language reference is:

S/048/62/026/006/020/020 B181/B104

AUTHORS:

Khrimyan, A. V., Yegiyan, K. Sh., Nalbandyan, N. A.,

Avakyan, V. V., and Karapetyan, V. A.

TITLE:

Mass measurements of low-intensity charged-particle groups

by various methods

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26,

no. 6, 1962, 837-840

TEXT: The mass of particles produced by the action of cosmic rays was determined from (1) momentum and ionization, (2) momentum and length of path, (3) momentum and energy, (4) ionization and energy, (5) ionization and length of path, (6) energy and length of path. The experimental arrangement (A. V. Khrimyan, V. V. Avakyan, N. A. Nalbandyan, K. Sh. Yegiyan, M. P. Pleshko, present publication, p. 722) consisted of a mass spectrometer, a proportional counter, two scintillation counters for determining the energy and length of path, and three scintillation counters: for determining the energy losses of scattered particles. (2) and (3) gave masses too high, (4), (5); and (6) masses too small for the 203 Card 1/2

KHRIMYAN, A.V.; YEGIYAN, K.Sh.; NALBANDYAN, N.A.; AVAKYAN, V.V.; KARAPETYAN, V.A.

Measurement of the masses of charged particles with the aid of scintillation counters. Izv. AN SSSR. Ser. fiz. 26 no.6:831-836
Je '62. (MIRA 15:6)

1. Fizicheskiy institut Akademii nauk Armyanskoy SSR. (Scintillation counters) (Particles (Nuclear physics))

KERIMYAN, A.V.; YEGIYAN, K.Sh.; NAIBANDYAN, N.A.; AVAKYAN, V.V.; KAPAPETYAN, V.A.

Various methods for measuring the masses of low-intensity groups of charge particles. Isv. AN SSSR. Ser. fiz. 26 no.6:837-840 Je '62.

1. Fizicheskiy institut Akademii nauk Armyanskoy SSR.

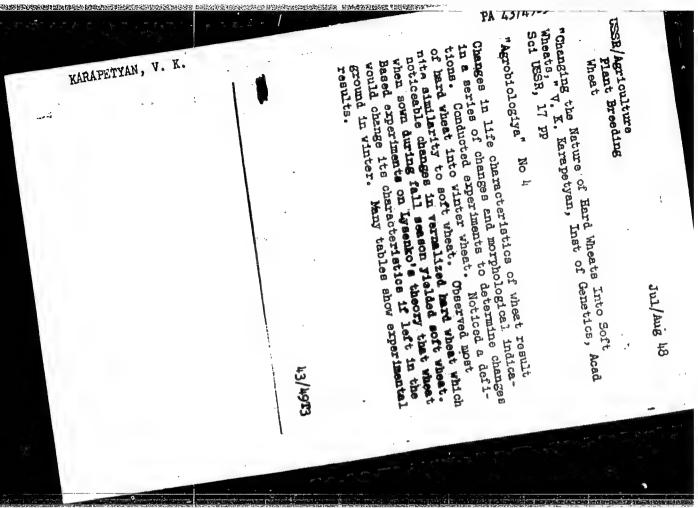
(Particles (Nuclear physics)) (Mass spectrometry)

CIA-RDP86-00513R000720610017-7

AKOPYAN, A.V.; KARAPETYAN, V.A.

Experimental study of the rigidity of reinforced tiffcrete beams under the prolonged action of loads. Izv. AN Arm. SSR. Ser. tekh. nauk 17 no. 4:77-82 '64. (MIRA 17:11)

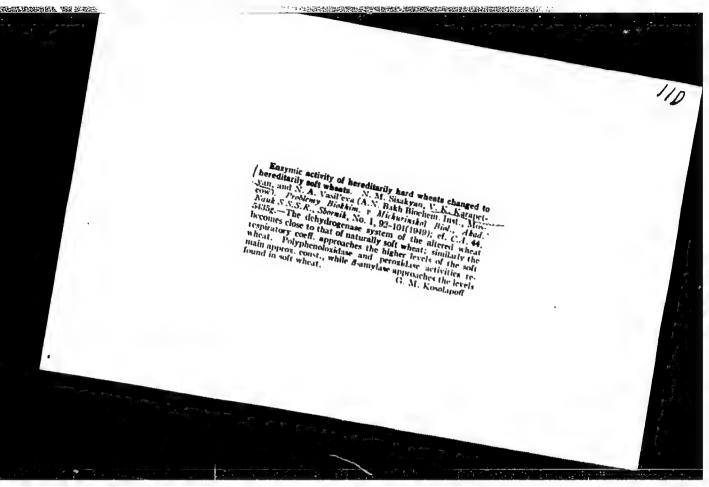
l. Armyanskiy nauchno-issledovatel'skiy institut stroitel'nykh materialov i soorusheniy.

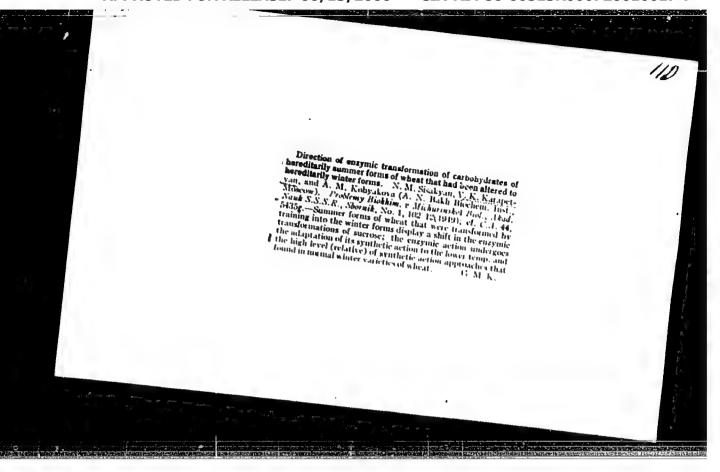


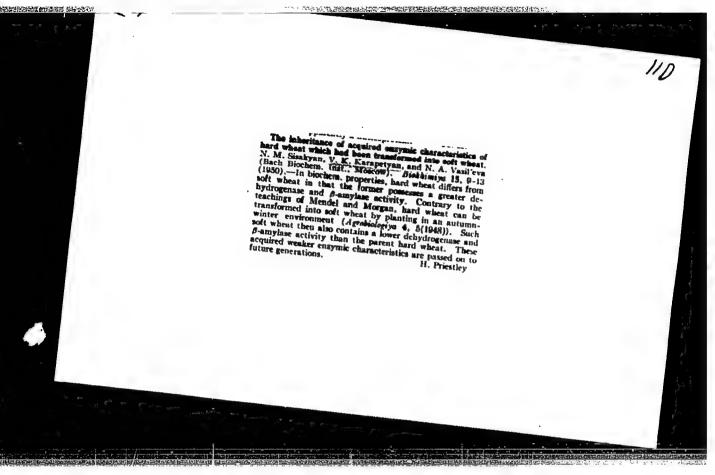
APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610017-7"

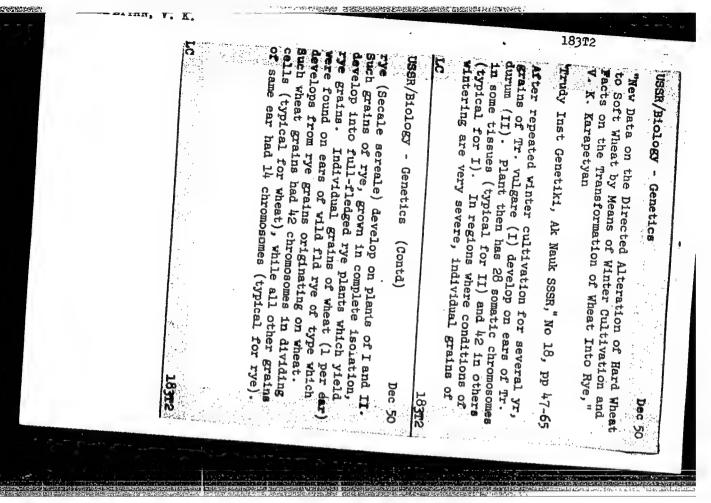
RAPFTYAN, V. K.		~-		PA 43/49T72	
USER/Medicine - Flents Medicine - Environment "Possibility of Transforming Certain Types of Cultivated Flants Into Other Types" 2 pp "Agrobiologiya" No 4	Neo-Darwinist-Morganist theory of nonhereditary phenotypic changes has been disprroved. Micharin's theory of genetics is the right one, and its acceptance will result in greater achievements by Soviet biologists and selection specialists. Becore to work by V. K. Karapetyan, which proves beyond all doubt that changes in the nature of an	USGR/Medicine - Flents (Contd) Jul/Aug 48	organism are not hereditary factors but are brought about by changes in its environment.		43/49172

Karapetran, V. K. - "The softening of durum wheat," Yestestverenive v shirole, 1948, No. 6, 18-30
SO: U-3600, 10 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 6, 1949).









V. K.

Mar/Apr 52

KARAPEYTAN.

USSR/Biology, Agricultural Genetics

"Some New Data on the Transformation of Species in Cereal Plants," V. K. Karapetyan. Inst of Genetics, Acad Sci USSR

"Agrobiologiya" No 2, pp 29-44

Single wheat grains found in rye ears yielded 42compn as ordinary rye plants. A new form of soft wheat which originated from hard wheat had 28 and chromosome wheat plants; the remaining rye grains Rye soft and hard wheat showed the same chromosome plants grown from rye grains found in ears of grew into typical 14-chromosome rye plants.

215T2

On castration and isolation, No intermediate forms beplants with 28 chromosomes at the tips of the roottween rye and wheat were observed. Expts proved that the rye grains found in wheat ears originated "yarovized") wheat grains either in the winter or wheat). The rye plants obtained were not hybrids: properties of Tr. durum and Tr. vulgare. In some chromosomes in genetic cells, thus combining the from Tr. durum ears yielded spelt (Tr. dicoccum) lets (a characteristic typical for spelt). Rye 48 chromosomes in sometic tissues and 14 and 28 spring (winter soft wheat and semi-winter hard cases, grains resembling rye which originated plants were obtained by planting vernalized they were fully fertile. without fertilization. 215T2

fertilization. The rye plants from grains resulting plants from such grains also formed grains without on castration and isolation were quite normal and had 14 chromosomes at the tips of the rootlets, which is typical for rye.

21512

CIA-RDP86-00513R000720610017-7" APPROVED FOR RELEASE: 06/13/2000

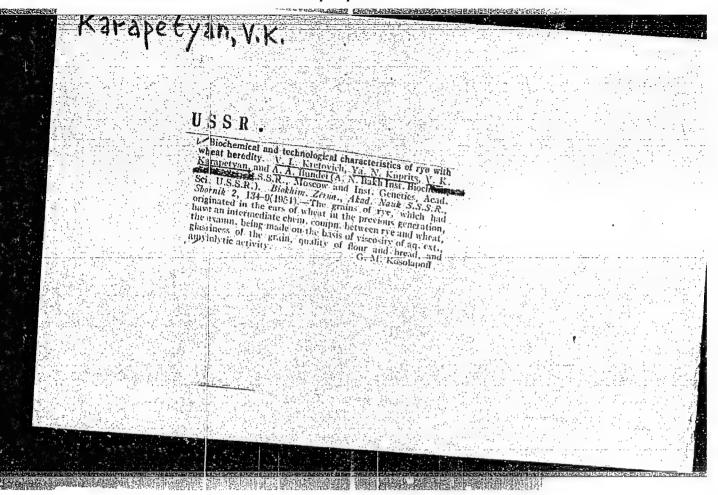
TAPFTYAN, V. K.

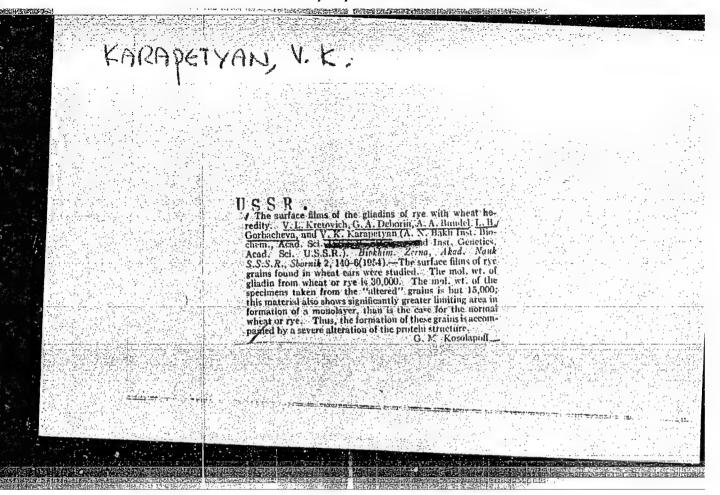
- USISR 600 2.
- 4. Plants Evolution
- 7. Species development in plants, Trudy Inst. gen, No. 19, 1952.

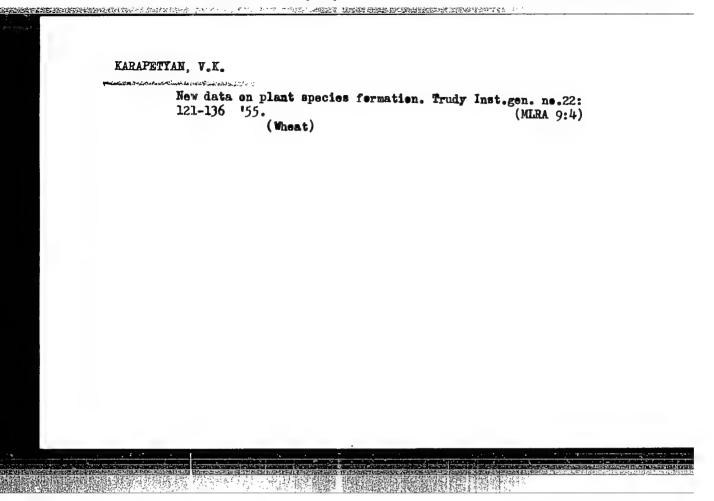
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

APPROMED FOR RELEASE: 06/13/2000

Genetic analysis of the first and second generations of rye-wheat and wheat-rye hybrids. Trudy Inst.gen. no.20:35-59 453. (MLRA 7:1) (Rye) (Wheat) (Hybridization, Vegetable)







Winter and frost hardiness of soft wheats produced from hard spring wheat and hard semiwinter wheat. Trudy Imst.gen.no.23:181-189 156.

(Winter and frost hardiness of soft wheats produced from hard spring wheat and hard semiwinter wheat. Trudy Imst.gen.no.23:181-189 156.

(Winter and frost hardiness of soft wheats produced from hard spring wheat and hard semiwinter wheat and large produced from hard spring wheat and hard semiwinter wheat and hard semiwinte

KARAPETYAN, V.K.

The problem of species and species formation in the light of studies on interspecific hybridization of plants. Trudy Inst. gen. no.24:35-75

*58. (MIRA 11:9)

(Hybridization, Vegetable) (Species)

Biological effect of nuclear radiation on plants. Agrobiologiia no.1:82-85 Ja-F 60. (MIRA 13:5)

1. Institut genetiki Akademii nauk SSSR.
(Plants, Effect of radioactivity on)

Changing winter wheat varieties with poor wintering characteristics into winter hardy varieties. Agrobiologiia no.6:878-885 N-D '60. (MIRA 13:12)

1. Institut genetiki Akademii nauk SSSR. (Wheat)

Converting hard frost-sensitive winter wheat and spring wheat

into frost-resistant winter wheat. Trudy Inst. gen. no. 27:54-67 '60.

(Wheat) (Plants--Frost resistance)

Effect of gamma rays on heredity in wheat. Trudy Inst. gen.
(MIRA 13:12)
no. 27:311-314 '60.
(Plants, Effect of gamma rays on)
(Wheat)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610017-7"

KARAPETYAN, V.K.

Refect of gamma rays on soft wheat and rye. Trudy Inst. gen.

(MIRA 13:12)

(Plants, Refect of gamma rays on)

(Rys)

1

Winterhardiness and developmental characteristics of interspecific hybrid plants. Trudy Inst. gen. no.28:91-95 '61. (MIRA 14:11) (WHEAT BREEDING) (PLANTS—FROST RESISTANCE)

Effect of ionizing radiation on heredity and vitality in some wheat and rye varieties. Trudy Inst. gen. no.28:141-145 '61. (WHEAT) (RYE) (PLANTS, EFFECT OF GAMMA RAYS ON)

The effect of ionizing radiation on the heredity and life of some varieties of wheat and rye. $^{\rm M}$

Report submitted to the 2nd Intl. Colloq. on Indect Pathology and Microbiological Control, Paris, France 16-2h Oct 1962

\$/670/62/000/029/004/006 D291/D307

AUTHOR:

Karapetyan, V.K.

The biological effect of ionizing radiation on variability in spring wheat during its conversion to the

winter habit

SOURCE:

Akademiya nauk SSSR. Institut genetiki. Trudy.

no. 29, 1962, 194-206

In 1957 work was initiated at the Institut genetiki AN SSSR (Institute of Genetics of the AS USSR) on the use of ionizing radiation for shattering the hereditary basis of plants, with subsequent cultivation under different environments. The present investigation was intended to show that when spring wheat is treated in this manner, forms differing in their developmental habit arise. Air-dry seeds of the Armenian spring variety Erinaceum (Triticum compactum var, erinaceum) were treated with Co⁶⁰ gamma rays at dosages ranging from 8 to 16 kr. The 10-16 kr doses were excessive, but a number of plants derived from 8 kr-treated seed survived the

Card 1/3

The biological effect ...

S/670/62/000/029/004/006 D291/D307

winter when sown in autumn and were in fact shown to be winter forms genetically. After two generations of autumn scwing, different families of the progeny of one of the surviving plants showed survival percentages of 37.8 to 82.4%. They were incapable of caring when sown in spring. Subsequently other winter forms were obtained in a similar manner, having greater overwintering capacity than the standard winter wheat variety Ukrainka. The winter selections produced grain yields which were, on average, 10-12% higher than in the original spring form. They were often early maturing, and had a long vernalization stage, not less than 50-55 days. 60% of the winter forms resembled the original variety morphologically. Others were classified as T. compactum var. rubriceps and T. vulgare vars. ferrugineum and erythrospermum. Some of the winter forms were compact, with strong, lodging-resistant straw; grains were often large, vitreous, uniform and high in protein. These compact forms were genetically stable, retaining their properties in successive generations. It is thought that some of the types which combine earliness, winter hardiness and high productivity will be of practical value. In assessing the results it is pointed out that the treatments applied Card 2/3

The biole	ogical effect .	S/670/62/000/029/004/006 D291/D307
effects a	are caused by e	of converting spring into winter wheat, the nvironmental influences on plants with shat- re are 6 figures and 4 tables.
Card 3/3		

Variability of plants grown from embryonally young seeds. Trudy Inst. gen. no.29:435-441 62. (MIRA 16:7)

(Botany-Variation)

KARAPETEAN, V.K. (Karapetyan, V.K.)

Ionizing radiation and its action on the heredity and vitality of some varieties of wheat and rye. Analele biol 16 no.1:12-18 Ja-F'62

KARAPETYAN, V. K.

"Genetical Analysis of ye-Wheat and Rye-Wheat Hybrids."

Report presented at the 2nd International Wheat Genetics Symposium, 19-24 Aug 63, Lund, Sweden.

Effect of ionizing radiation on the variability of spring wheat during its transformation into winter wheat. Agrobiologiia no.1: 107-110 Ja-F '63. (MIRA 16:5)

1. Institut genetiki AN SSSR.
(Botany-Variation) (Wheat) (Plants, Effect of radiation on)

Controlled hereditary change of dual-purpose wheat into winter-hardy forms of winter wheat. Trudy Inst. gen. no.30:109-118 '63. (MIRA 17:1)

Variability of plants grown from embryonially young seeds. Zhur. ob. biol. 24 no.5:360-365 S-0 '63. (MIRA 17:1)

1. Institut genetiki AN SSSR, Moskva.

Controlled heritable transformation of the dual-purpose wheat into frost-resistant winter forms. Izv. AN SSSR. Ser. biol. no.3: 451-459 My-Je '64. (MIRA 17:5)

1. Institute of Genetics, Academy of Sciences of the U.S.S.R. Messow.

KARAPETYAN, V.K.; GYULANYAF, A. Ye.

Biological effect of lemizing radiation on the variability of spring wheat during its conversion into winter wheat. Izw. AN Arm. SSR. Biol. nauki 15 no.12:33-47 P'62 (MIRA 17:8)

l. Institut genetiki AN 5558 i Kenimakanskaya gosudarstrennaya selektsionnaya stantsiya.

KARAPETYAN, V.K.

Characteristics of the development of wheat-rye and rye-wheat hybrids. Trudy Inst. gen. no.31:119-125 164. (MIKA 17:9)

KOLESNIKOV, N.A.; KUBYSHEV, N.N.; FEDORENKO, V.G.; KARAPETYAN, V.K.; UNZHAKOV, M.S.

Intensification of the shaft furnace lead smelting process by augmenting the oxygen concentration. TSvet. met. 27 no.128 (MIRA 1882)

OKUNEV, A.I.; CHUMAREV, V.M.; DONCHENKO, P.A.; KARAPETYAN, V.K.

Accelerating the fuming of slags with the use of oxygen-enriched air. TSvet. met. 36 no.5:34-41 My '63. (MIRA 16:10)

AKHMETOV, K.T.; DONCHENKO, P.A.; KUBYSHEV, N.N.; VOLKOV, I.P.; KARAPETYAH, V.K.; YELYAKOV, I.I.; CHIKRIZOV, M.V.; KHOBDABERGENOV, R.Zh.

Modernizing the industrial equipment of lead production and the growth of labor productivity. TSvet. met. 36 no.7:11-19 Jl '63. (MIRA 16:8)

(Lead industry-Equipment and supplies)

ALEKSEYEVSKIY, V.V.; KARAPETYAN, V.M., inzh.; GRIGORYAN, Ye.B., inzh.

New series of distribution transformers with 160 - 630 kv.-a power rating. Vest. elektroprom. 34 no.4:25-26 Ap '63. (MIRA 16:10)

1. Chlen-korrespondent AN Armyanskoy SSR (for Alekseyevskiy).

KARAPETYAN, V.M.; AYKAZUNI, G.A. The TSM-180/10 oil-filled power transformer. Biul.tekh.-ekon. inform. no.11:40-41 \$ 58. (NIRA 11:12)

(Electric transformers)

CIA-RDP86-00513R000720610017-7" APPROVED FOR RELEASE: 06/13/2000

KARAPETYAN, V. M.

37608. sluchay vistseral'nogo leyshmanioza j vzroslogo v g. jerevane. trudy in-ta malyarii i med. papazitologii (m-vo zdravookheaneniya arm.ssr) vyp. 4, 1949. s. 152-56.

SO: Letopis' Zhurnal' nykh Statey, Vol. 37, 1949

SOV/110-59-9-2/22

Oganyan, R.A., Gukasyan, M.G. and Karapetyan, V.M. AUTHORS:

(all Engineers)

A New Series of 6 and 10 kV Power Transformers of the TITLE:

First and Second Frame Sizes

PERIODICAL: Vestnik elektropromyshlennosti, 1959, Nr 9, pp 5-8 (USSR)

ABSTRACT: A new series of general-purpose transformers designated type TSM has been developed. Altogether there are ten different ratings, each being greater than the previous one by a factor of 1.73. The ratings in the first frame size are 20, 35, 60 and 100 kVA and in the second frame size 180, 320 and 560 kVA. In addition, subsidiary ratings of 135, 240 and 400 kVA are made in the second frame size. The high-voltage windings will be for 6 cr The ratings in the first frame 10 kV, though 6.3 kV will be supplied for existing installations. Off-load tapping switches of ± 5% are provided on the high-voltage side. The ratio of copper to iron loss is 3.5 - 4.0. To reduce deterioration of transformer oil and insulation the maximum temperature rise at the top of the cil has been reduced from 60°C to

55°C, and that of the windings reduced from 70°C in the old standard to 65°C. The insulation, and the clearances in the main insulation, are the same for both 6 and 10 kV Card 1/3

SOV/110-59-9-2/22

A New Series of 6 and 10 kV Power Transformers of the First and Segond Frame Sizes

· 中心不同心的心态,如此不知识的数据的知识的知识的心理是可以是这种的一个。

Further reduction in these clearances is transformers. undesirable because it would impair cooling. The cores will be made of annealed cold-rolled steel grade E330, The sheets will be insulated with varnish. 0.35 mm thick. A number of changes have been made, mainly with the object of reducing weight and size or to facilitate manufacture. A transformer type TSM 100/6-10 is illustrated in Fig 1, alongside an old TM series transformer of the same rating. A transformer type TSM 180/6-10 is illustrated in Fig 2. The three-limb core-type construction is used; the core clamps are made of angle iron and the clamping arrangements are described. An illustration of a typical core and coil assembly for the new series of transformers is given in Fig 5. The core and coils no longer have any attachment to the lid and are fully supported by the tank, so that there is less risk of damage in transport. The high-voltage leads are made of flexible wire and the lowvoltage leads of copper strip. The new transformer tanks for 20 and 35 kVA are made of 2 mm sheet steel stiffened by cooling ribs. From 60 kVA and upwards

Card 2/3

30V/110-59-9-2/22

A New Series of 6 and 10 kV Power Transformers of the First and Second Frame Sizes

[4] A STOP TO PERSONAL COMPLETE COMPLE

tube-cooled tanks are used, the tubes being eval and not The tanks themselves are of so-called "oval" Even the smallest of the 6 kV transformers have conservators. The other fittings are described. The total losses of the new transformers are 15-25% lower than those of transformers conforming to the existing standard GOST 401-41, also of transformers made by the East German firms TRO and TUR. Fig 3 compares the weights of oil in the cld and new series transformers and in the German transformers. If all Soviet transformers in these ratings were made in the new type the total annual economy of copper would be 120 tons, of steel 900 tons, of transformer oil 4000 tons and of other materials. including insulation, 3900 tens. Tests on the new transformers have confirmed that the design and construction are well chosen.

Card 3/3

There are 5 figures.

KARAPETYAN, V. N.

37607. k voprosi o lechenii vistseral nogo leyshmanioza solyjsur minom v ogl: trudy in-ta malyarii i med. parazitologin. (m-vo zdravookhraneniya arm ssr), vyp. 4, 1949, s. 147-51

SO: Letopis' Zhurnal' nykh Statey, Vol. 37, 1949

GAMBARYAN, P.P.; KARAPMYAN, V.S.; AYRUMYAN, K.A.; KAYARYAN, K.G.;
MEHLUMYAN, S.E.

Boolegy of the Promethean vole(Prometheomya schaposchnivkevi Sat.).
Zool. abor. no. 10:5-16 *57.

(Adshar-Ineretian Range-Field mice)

ORZHESHKOVSKIY, V.V.; KARAPRIYAN, V.S.; TIMOFEYEVA, N.V.

Eye diseases in infectious nonspecific polyarthritis. Sov.med. 23 no.7:44-46 Jl '59. (MIRA 12:11)

1. Iz Sochinskogo nauchno-issledovatel skogo instituta revmatizma (dir. - prof.M.N.Shikhov) Ministerstva zdravookhraneniya RSFSR.

(EYE DISHASES complications)

(ARTHRITIS complications)

KECHEK, G.A.; KARAPETYAN, V.S.

Methods for direct determination of preformed ammonia and glutamine in the trichloroacetic acid filtrate of blood. Vop. biokhim. 1:177-183 '60.

1. Department of Biochemistry, Academy of Sciences of Armenian S.S.R., Erevan.

(AMMONIA) (GLUTAMINE)

(BLOOD_ANALYSIS AND CHEMISTRY)

MANVELYAN, M.G.; BABAYAN, G.G.; GEVORKYAN, S.V.; ASLANYAN, D.G.; KARAPETYAN, V.TS.

Study of the system Na₂SiO₃ - Ca (OH)₂ - H₂O at 25°C and of the conditions of the adsorption of sodium hydroxide on a calcium metasilicate precipitate. Izv.AN Arm.SSR.Khim.nauki 14 no.4:309-317 161. (MIRA 14:10)

1. Institut khimii Sovnarkhoza Armyanskoy SSR. (Calcium silicate) (Sodium hydroxide) (Adsorption)

DEMIN, YU.M.; MODIAYELYAN, S.S.; KARAPETYAN, V.S.; OSIPOVA, E.N.; AKOFYAN, Deh.A.

Ferticipation of Y-aminobutyric acid in the metabolism of glutamic and aspartic acids, alanine and glutamine and in neutralization of ammonia in the brain tissue. Vcp. bickhim.

(MERA 18:9)

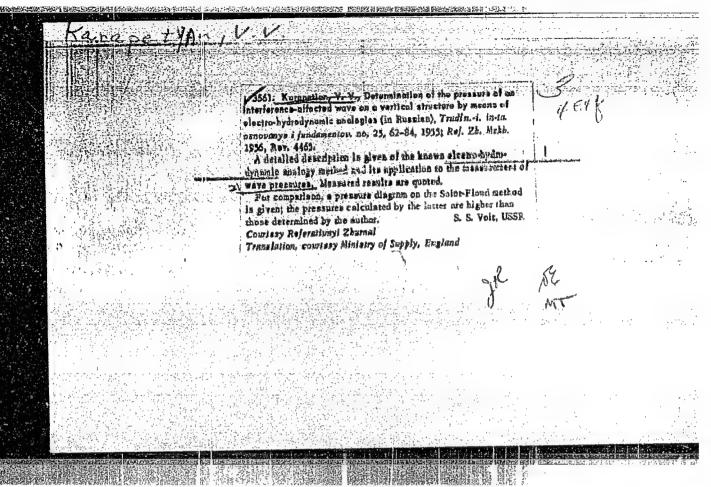
moz. 1:45-59 164.

1. Institut bickhimii AN ArmSSR.

BABAYAN, G.G.; KARAPETYAN, V.TS.

Physicochemical properties of aqueous solutions of sodium and potassium silicates. Part 1: Electric conductance and viscosity of potassium silicate aqueous solutions. Izv.AN Arm.SSR.Khim.nauki 17 no.1: (MIRA 17:4)

1. Institut khimii Gosudarstvennogo komiteta tsvetnykh i chernykh metallov SSSR.



L 29083-66

ACCESSION NR: AP5019208

UR/0056/65/049/001/0007/0009

AUTHOR: Balats, M. Ya.; Karapetyan, V. V.; Kondrat'yev, L. N.; Obukhov, Yu. V.

TITLE: Intensity of nonradiative transitions in Ta and Pu239 mesic atoms

SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 49, no. 1, 1965, 7-9

TOPIC TAGS: mesic atom, nonradiative transition, tantalum, plutonium, Mu meson, x ray spectrum

ABSTRACT: This is a continuation of intensity measurements of nonradiative transitions in a number of heavy elements (ZhETF v. 38, 1715, 1960 and v. 39, 1168, 1960) carried out by means of a scintillation γ -spectrometer. The authors investigated the mesic x-ray spectra and have determined the ratio of the intensities of the 2p--1s transitions in Ta and Pu²³⁹ relative to Fb. Some modification was made in the experimental set-up for the measurements with Pu in order to accommodate the large background in the γ -spectrometer counter from the natural radioactivity of Pu²³⁹. Preliminary measurements have shown that when the γ -detector is loaded by the Pu activity the γ -ray spectrum from the 2p--1s transitions in Fb is displaced towards the hard region by 3--5%, but this shift causes no noticeable error in the experimental results. The fraction of the nonradiative 2p--1s transitions was determined by comparison of the γ -spectra obtained with lead and with the materials

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AUTHOR: Balats, M. Ya.; Karapetyan, V. V.; Kondrat'yev, L. N.; Obukhov, Yu. V.43

TITLE: Intensity of nonradiative transitions in Ta and Pu259 mesic atoms

SOURCE: Zhurnal eksperimental noy i teoreticheskoy riziki, v. 49, no. 1, 1965, 7-9

TOPIC TAGS: mesic atom, nonradiative transition, tantalum, plutonium, Mu meson, x ray spectrum

ABSTRACT: This is a continuation of intensity measurements of nonradiative transitions in a number of heavy elements (ZhETF v. 38, 1715, 1960 and v. 39, 1168, 1960) carried out by means of a scintillation γ -spectrometer. The authors investigated the mesic x-ray spectra and have determined the ratio of the intensities of the 2p-ls transitions in Ma and Pu²³⁹ relative to Pb. Some modification was made in the experimental set-up for the measurements with Pu in order to accommodate the large background in the γ -spectrometer counter from the natural radioactivity of Pu²³⁹. Preliminary measurements have shown that when the γ -detector is loaded by the Pu activity the γ -ray spectrum from the 2p-ls transitions in Fb is displaced towards the hard region by 3--5%, but this shift causes no noticeable error in the experimental results. The fraction of the nonradiative 2p--1s transitions was determined by comparison of the γ -spectra obtained with lead and with the materials

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studied. The number of radiative transitions was 1 ± 0.08 and 0.59 ± 0.06 for Ta and Pu²³⁹, respectively. The corresponding fractions of nonradiative transition were therefore 0 ± 0.08 and 0.41 ± 0.06 . In the case of tantalum, a correction was made for the solid angle. The results are consistent with the theoretical assumptions of D. F. Zaretakiv and V. M. Novikov (ZhETF v. 41, 214, 1961). "The authors thank Prof. B. Pointecorvo for suggesting the experiment and for interest in the work." Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki GKIAE (Institute of Theoretical and Experimental Physics, GKIAE)

SUBMITTED: 18Hov64

ENCL: 00

BUB CODE: NP HP

NR REF SOV: 002

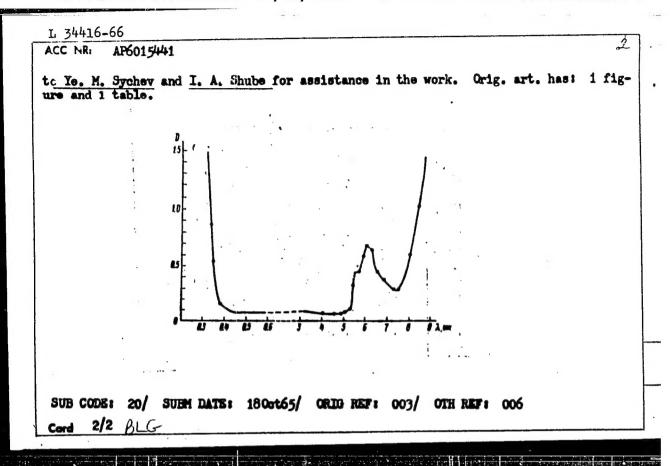
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Card 2/2

Absorption and luminescence of divalent samarium in alkali halide single

crystals. Opt. i spektr. 14 no.3:441-443 Mr '63. (MIRA 16:4) (Alkali metal halide crystals—Growth) (Samarium) (Laminescence)

IJP(c) JD/JG EWT(1)/EWT(m)/T/EWF(t)/ETI L 34416-66 SOURCE CODE: UR/0051/66/020/005/0918/0920 ACC NR: A16015441 AUTHOR: Bakhshiyeva, G. F.; Karapetyan, V. Ye.; Morozov, A. M. ORG: none ß TITLE: Optical characteristics of lanthamum sodium molybdate single crystals SOURCE: Optika i spektroskopiya, v. 20, no. 5, 1966, 918-920 TOPIC TAGS: molybdate, lanthamum compound, sodium compound, refractive index, crystal optic property ABSTRACT: Large single crystals of LaNa(MoQ₄)₂ whose C axis was parallel to the axis of growth were grown on a seed by pulling from the melt, and their absorption spectra and refractive indices were measured. The absorption spectrum of an IaNa(MoO4)2 crystal taken with SF-4 and IKS-14 spectrophotometers is shown in the figure. It is noted that the absorption spectra are typical of all crystals having a scheelite structure. Refractive index measurements showed that the light ray is "fractionated" on passing through an LaNa(MoO4)2 prism, apparently because the lattice of this binary molybdate is highly disordered. This factor is also thought to cause the relatively broad luminescence lines of Nd)+ in IaNa(MoQ₄)₂ and the broad ESR lines of this compound reported by other authors. Authors express their deep appreciation to A. I. Stozharov and P. P. Feofilov for their steady interest and helpful discussions, and UDC: 535.321 + 535.341:548.0 Card 1/2



APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610017-7"

KARAPETYAN, Ye.A.; KRYSHOVA, N.A., zaveduyushchaya.

Role of the protective sleep inhibition in narcolepsy and other forms of sleep pathology. Trudy Inst.fiziol. 1:381-393 '52. (MLRA 6:8)

1. Sektor organicheskikh nervnykh rasstroystv. (Sleep)

ANDREYEV, B.V.; KARAPETIAN, Ye.A.; MAYOROV, F.P., zaveduyushchiy; KRYSHOVA, N.A., zaveduyushchaya.

"可是你不知道这个可能是我们的现在是是我们的是我们的一个。"

Peculiarities of nocturnal sleep in narcolepsy according to data obtained by the activity recorder. Trudy Inst.fixiol. 1:376-380 '53. (MLRA 6:8)

1. Laboratoriya fiziologii i patologii vysshey nervnoy deyatel'nosti (for Mayorov and Andreyev). 2. Sektor organicheskikh nervnykh rasstroystv (for Kryshova and Karapetyan). (Sleep)

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KARAPETYAN, YE. A.

USSR/Medicine - Nervous disorders

Card 1/1 Pub. 86 - 37/37

Authors : Karapetyan, Ye. A.

Title : Sommambulism

Periodical : Priroda 43/10, page 127, Oct 1954

Abstract: The characteristics of sleepwalking are described and a theory as to the physical cause of this phenomenon is presented. Sleepwalking is considered

as a pathological condition of the nervous system and directions are given

for its treatment.

Institution: ... Inal Physiology in Parlor

Submitted : ...